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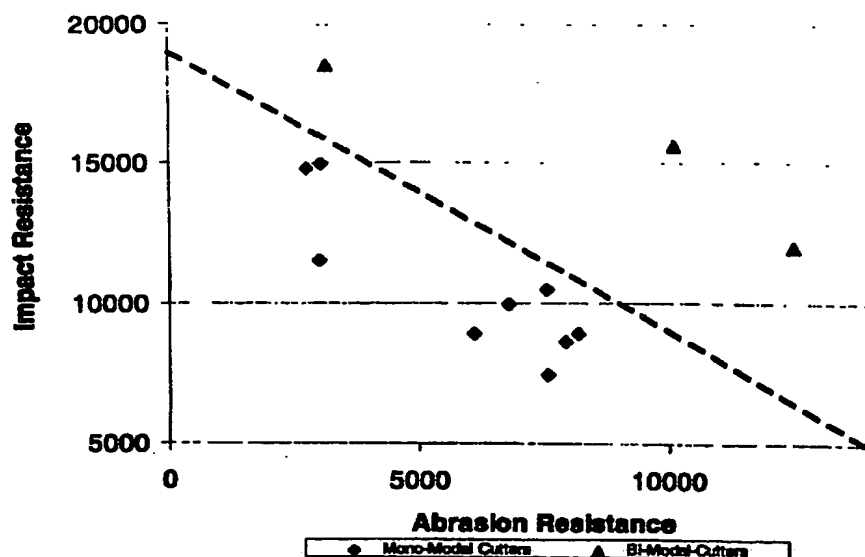
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(54) Title: **POLYCRYSTALLINE DIAMOND TOOLS AND METHOD OF MAKING THEREOF**



(57) Abstract: The present invention is a tool insert. The tool insert includes a abrasive layer and a substrate. The abrasive layer has a periphery forming a cutting surface and is located on the substrate. The abrasive layer includes at least one of polycrystalline diamond or cubic boron nitride. The abrasive layer tool insert has a sum value of an impact resistance number and an abrasion resistance number that is $\geq 19,000$. The impact resistance number is equal to a total number of hits before failure of the tool insert. The abrasion resistance number is equal to equation (1) (1) abrasion resistance = final volume of granite removed by the tool insert (inch³)/final tool wear land area (inch²).

WO 2004/098875 A2



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